

NEWSLINE

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Grand challenge science

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LAB NEWS

Ishii named to Alameda County Women's Hall of Fame

By Anne M. Stark
Newsline staff writer

Lab physicist Hope Ishii has been selected to the Alameda County Women's Hall of Fame as the 2007 Outstanding Woman in Science. She will receive her award, along with nine other winners, on Saturday, April 28, during a special ceremony at the Fremont Marriott Hotel.

Ishii will be honored for research she performed as part of the Lab's Stardust team. The NASA Stardust mission was launched seven years ago to capture particulate materials from the comet Wild 2. These bits of dust offer a snapshot of the building materials available around the time that planets were forming.

"It's a real honor to receive this award on behalf of the research the Lab's Stardust team did as a whole," Ishii said. "It's good to know you can have an impact."

When the mission was launched, no one knew exactly how to extract the minuscule particles trapped in aerogel without damaging or contaminating the sample.

That's where Ishii came in. Ishii developed a way to extract the samples from the material using ultrasonic diamond blades. She determined that, at a certain ultrasonic frequency, the diamond blades create a clean slice into the sample without damaging or contaminating it.

Ishii is the fifth woman from the Laboratory to be inducted into the Alameda Women's Hall of Fame. Previous winners include Dona Crawford, Claire Max, Ellen Raber and Tammy Jernigan.

Most recently, Ishii was one of more than 200 investigators worldwide that published several papers in a series of analyses of the space dust in the journal *Science*. Ishii and Livermore colleagues determined that during Wild 2's formation, it gathered materials that formed much closer to the young sun than anticipated. Ishii and others are analyzing these tiny particles at the angstrom scale with the SuperSTEM (scanning transmission electron microscope) on site at Livermore.

"We've finally seen the results of all our hard work," she said. "It's like planting a seed and after weeks and weeks, you finally see a sprout."

Ishii joined LLNL in 2004 as a postdoctoral student and recently



FILE PHOTO/NEWSLINE

Hope Ishii (right) displays cometary and interplanetary dust samples from the NASA Stardust mission to members of the media during a press event last year.

was hired as a full-time physicist. She earned her bachelor's degree in materials science and engineering from Cornell University; a master's degree in physics and engineering physics from Chalmers University of Technology in Sweden; and a Ph.D. in materials science and engineering from Stanford University.

Prior to joining the Laboratory, Ishii worked at Naval Research Labs, Hewlett-Packard and Hitachi Global Storage Technologies.

But Ishii doesn't keep her science to herself. She's been a speaker at LLNL's Science on Saturday public lecture series, LLNL's Science and Technology Education Program for high school physics teachers; a Science Buddies adviser; recruiter and organizer of volunteers for the Expanding Your Horizons in Science and Mathematics Conference; a frequent participant in Take Your Daughter to Work Day; and a judge in the Tri Valley Science and Engineering Fair.

The Women's Hall of Fame Awards are bestowed each year in 10 categories.

“
*It's good
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can have an
impact.*

— HOPE ISHII ”

The Alameda County Board of Supervisors, the Alameda County Commission of the Status of Women and the Alameda County Health Care Foundation sponsor the awards.

2007 TRANSITION NEWS



PHOTO BY JAQUELINE MCBRIDE

(Clockwise from bottom left) Jan Nivens, Susan Haiflich, Eric Steele, Kathleen Hardcastle, Barbara Peterson and Richard Peterson.

Peterson talks transition with Plant

Barbara Peterson, Laboratory Contract Transition manager and Kathleen Hardcastle, Human Resources Transition manager, provided a presentation to Plant Engineering employees Tuesday.

Since last June, Peterson and members of the Transition Team have been making the rounds of Lab organizations to provide current information on transition activities and to answer questions from employees. This week, Peterson told audience members that based on the contract timeline, the contract announcement “could be imminent.”

Contract decision announcement

When the Department of Energy/National Nuclear Security Administration announces the new contractor to manage and operate the Laboratory, employees will immediately be informed by e-line.

Updates on the new contractor and transition will be provided in NewsOnLine and the transition Website as information becomes available. NewsOnLine may be updated more frequently as needed during the transition period. Newsline, which now appears weekly on Mondays, also will provide additional in-depth coverage on aspects of transition.

Questions and answers

One of the main concerns many employees have is the security of the funds that will be used to pay retirement benefits. When transferred from UCRP to the new corporation will the funds be put into a trust or other legal entity that can only be used to pay retirement benefits for the employees? In other words can the new corporation get access to the funds for any purpose other than paying benefits to retirees?

By law, the funds must be put into a trust. They may not be used to benefit the sponsoring company and must be used exclusively for the purpose of providing benefits to the participants and for defraying the expenses of administering the plan.

Do we have a better estimate as to when benefits information will be available? I have heard that those who are trying to decide on an end-of-June retirement are particularly anxious about this, as they have less time to make a decision.



We expect it will take up to several months after the contract is awarded before sufficient information on the new contractor’s benefits proposal will be available. At this point in the process, it is doubtful that employees planning to retire in June will have information on the new benefits package.

During the earlier meetings between LLNL employees and the UC benefits representative, the presentation stressed several times that the UCRP pension is for life. Will that be the same with a new contractor?

Defined benefit (pension) plans, by the nature of their design, provide guaranteed monthly benefit payments to eligible vested employees for life upon retirement. Under the terms of the Request for Proposal, the new contractor is required to offer a defined benefit plan to transferring employees which is substantially equivalent to the one they now belong to as UC employees. Just like the UC pension plan, the contractor’s pension plan provides a monthly annuity for the rest of a retiree’s life.

THE CONTRACT TIMELINE	2007
New contract awarded Compensation, benefits and pension planning begins	Spring
Contractual transition begins	July 1
Current contract expires	Sept. 30
New contract starts	Oct. 1

Transition focus

Fact sheets to be distributed to employees

Question and answer fact sheets on a range of transition-related topics will be distributed to Laboratory employees via Lab mail this week. Topics include: job security and employment; retirement accounts — 403(b) and 457(b); vacation and sick leave; and reciprocity.

The fact sheets cover employees’ most frequently asked questions and will be posted on the transition Website (<http://transition.llnl.gov/>). Additional fact sheets will be produced as questions arise and information from the new contractor becomes available.

Computing muscle for grand challenge science

By Don Johnston
Newsline staff writer

The Laboratory's institutional "Grand Challenge" scientific computing program has allocated 83.7 million CPU hours to 17 research projects ranging from astrophysics, chemistry, materials and biosciences to earthquake and climate simulation on Laboratory supercomputers.

Grand Challenge recipients have been allocated time on Atlas, the new 44 teraFLOP (trillion floating operations per second) machine and Thunder, a 22 teraFLOP machine — systems dedicated to unclassified research through the Laboratory's Multi-programmatic and Institutional Computing program. Central processing unit or CPU time is measured across the multiple CPUs in a computer. For example, two CPU hours can be one CPU used for two hours or two CPUs used for one hour. High-performance computers generally consist of thousands of CPUs; the Atlas system contains 9, 216 CPUs.

"The Atlas Grand Challenge program makes high-performance computing resources available to compelling science projects vital to U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA) and Laboratory (LLNL) missions," said Cherry Murray, deputy director for Science and Technology. "Our institutional program aligns with national security needs and serves as a complement to the DOE Office of Science effort to allocate time on high-performance computing systems to research projects of national interest in energy, environment, bioscience and physical science."

Research projects were selected by the Laboratory's deputy director for Science and Technology, the Laboratory Strategic Program Board and the Laboratory Science and Technology Office. To be considered, proposals had to "address a grand-challenge-scale, mission-related problem that promises unprecedented discoveries in a particular scientific and/or engineering field of research, and if successful, will result in high-level recognition by the scientific community at large."

For example, a multi-institutional group of climate scientists will conduct the most detailed multi-decade global climate simulations ever performed as part of the larger effort to understand how climate changes over time.

"By performing these climate simulations of unprecedented detail and fidelity and making them available to the climate research community, we have the potential to dramatically advance our understanding of climate and how it may be affected by anthropogenic factors," said Dave Bader of LLNL, principal investigator on the project, which also includes scientists from the Scripps Institution of Oceanography, the National Center for Atmospheric Research, the University of Michigan, Los Alamos National Laboratory and Oak Ridge National Laboratory.

Over the last 10 years, high-performance computing resources dedicated to unclassified institutional research have increased more than a thousand fold from 72 giga (72,000 million) FLOPS in 1997 to 81 teraFLOPS today.

"High-performance computing is today an integral part of the scientific process and can serve to advance science in areas of vital interest to the country and the



JOSEPH MARTINEZ/TID

Atlas is the Laboratory's new 44 teraFLOP supercomputer dedicated to unclassified science.

global community, including energy, bioscience and medicine, and climate change," said Dona Crawford, associate director for Computation at LLNL. "The new high-performance computing resources we have put in place for unclassified research leverage the supercomputing expertise and infrastructure we have in place for stockpile stewardship. The Atlas Grand Challenge projects will in turn benefit our national security missions."

Physical science grand challenge projects include: Accretion Disks Around Rapidly Rotating Black Holes; Dislocation Patterns – Fractals or Cells?; Study of Ramp Compression of Metals Using Molecular Dynamic Simulations; Toward a Predictive Capability for Laser Backscatter in National Ignition Facility Ignition Targets; Advanced Explosion and Earthquake Simulations; Supernova Grand Challenges; Longtime Scale Shock Dynamics of Astrophysical Ices; Modeling Nuclear Materials for Advanced Nuclear Reactors; Realistic Shock Response of Transition Metals via Atomistic Simulation; and From Quantum Chromodynamics to Nuclei to Stars.

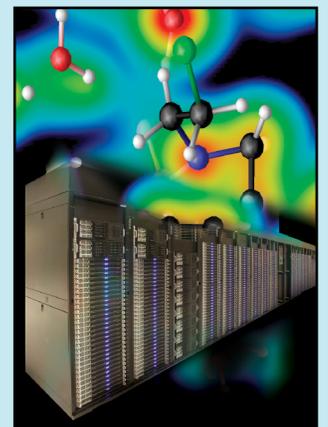
Bioscience Grand Challenge projects include: Understanding Catalytic and Structural Properties of Proteins in Biological Processes Through First Principles Simulations; Molecular Simulations of Huge Biomolecular Complexes for Single Molecule X-Ray Imaging and New Anti-Viral Strategies; Simulation of Membrane Protein and Nanodisc Particles; and From Rubisco to Polio Virus: Tailored Design of Polymer Thin Film Transistors.

"Institutional computing has been an essential component of our science and technology investment strategy and has been instrumental in helping us achieve recognition in many scientific and technical forums," Murray said. "We must continue to leverage these resources to continue generating headline scientific and technical accomplishments that benefit

the nation and the global community."

Collaborators on these Grand Challenge projects are from Stanford University, Florida State University, UCLA, UC Berkeley, UC Santa Barbara, UC Santa Cruz, University of Southern California, Harvard University, Iowa State University, San Diego State University, College of Charleston, University of Michigan, University of Pennsylvania, University of Minnesota, University of Illinois Urbana-Champaign, University of Nevada, Reno, Dartmouth College, Massachusetts Institute of Technology, State University of New York at Stony Brook, University of Oxford, UK, University of Augsburg, Augsburg, Germany, Russian Academy of Sciences, Yekaterinburg, Russia, RIKEN, Institute of Physical and Chemical Researchers, Wako, Japan, Scripps Institution of Oceanography, National Center for Atmospheric Research, Institute of Physical Chemistry, Universitat Zurich, Argonne National Laboratory, Lawrence Berkeley National Laboratory, Oak Ridge National Laboratory, Los Alamos National Laboratory, Pacific Northwest National Laboratory, General Atomics and Tech-X Corporation.

On the cover: A superimposed image from a project to look at the activation of an anti-cancer drug (phosphoramidate mustard) in solution. Credit: Eric Schwegler



SCIENCE NEWS

Researchers gain insight into nuclear isomer decay

By Anne M. Stark
Newsline staff writer

Livermore researchers have moved one step closer to being able to turn on and off the decay of a nuclear isomer.

The protons and neutrons in a nucleus can be arranged in many ways. The arrangement with the lowest energy is called the ground state and all others are called excited states. This is analogous to the ground and excited states of electrons in an atom except that nuclear excited states are typically thousands of times higher in energy. Excited nuclear states eventually decay to the ground state via gamma emission or to another nucleus via particle emission. Most excited states are short-lived (e.g., billionths of a second). However, a few are long-lived (e.g., hours) and are called isomers.

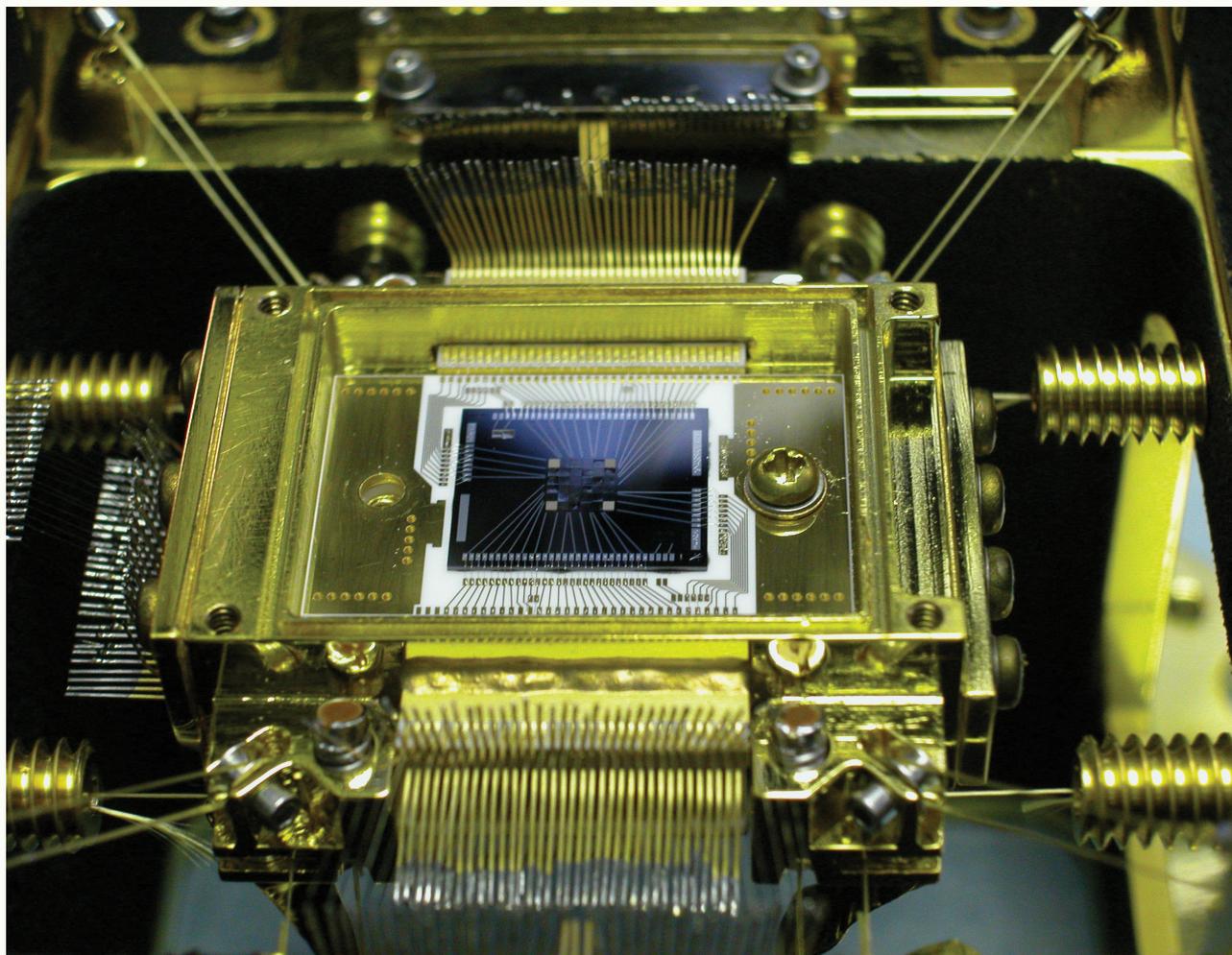
Turning the decay on and off is key to using isomers as high-energy density storage systems such as batteries.

Researchers at Livermore studied an isomer of Thorium-229. This isomer is unique in that its excitation energy is near optical energies, implying that one day scientists may be able to transition Th229 nuclei between the ground and isomeric states using a table-top laser.

"This would then be the first time human control would be exerted over nuclear levels," said Peter Beiersdorfer, an LLNL physicist and co-author of a paper that appears in the April 6 issue of *Physical Review Letters*. "This only works if the laser is tuned to exactly the correct energy."

For years, researchers have been fascinated with this isomer because it could lead to new science and technology breakthroughs. Among them are: a quantum many-body study; a clock with unparalleled precision for general relativity tests; a superb qubit (a quantum bit) for quantum computing; and testing the effects of the chemical environment on nuclear decay rates. Isomers also may serve as a battery for storing large amounts of energy.

However, before these exotic studies can be performed, an accurate determination of the isomer's excitation energy above the ground state is needed.



This detector was used to study the excitation phases of Thorium-229.

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— PETER BEIERSDORFER ”

In the most recent research, Livermore scientists, along with colleagues from Los Alamos National Laboratory and

NASA Goddard Space Flight Center, have made the most accurate measurement of this energy difference using an indirect technique.

"Our measurement is more accurate and differs significantly from prior results. This may explain why scientists have failed to directly see this transition. Frankly, they were looking in the wrong place," said Bret Beck, an LLNL physicist and lead-author on the paper.

The next step will be to use a laser or a synchrotron tuned to the exact energy of the spacing between the two levels and observe the transition from the ground state to the isomeric state.

Once laser excitation has proven possible, helping an excited level decay (and thus give off energy) can be tackled. "But for building a more precise clock than we have today, or building a quantum computer, excitation may be all that's needed," Beiersdorfer said.

Other Livermore scientists involved in the work include John Becker, Greg Brown and Ken Moody.

i.want ads

Due to the high quantity of ads and space limitations, these want ads have been abbreviated.

For the complete ad listings, refer to the internal Website: <http://www.r.lnl.gov/pao/news/wantads.html> or for the latest pdf download and retiree information, see the external Website: <http://www.lnl.gov/pao/employee/>. Please note that these ads appear on the Web.

Date of ads: Approx. April 10 to April 17. Ads appear on the Web for seven days.

AUTOMOBILES

91 Ford Explorer. \$3,500 OBO. Clean, 2-dr, 4WD, dk-blue, leather, alloys, off-road tires, 510-530-5089

1987 Ford Mustang. Runs, needs work, call before 6 p.m. 925-447-0747

1990 Corvette Convertible. \$12,000 OBO. Fast, beautiful car in great condition. 84,000 miles. 925-245-0626

1996 4Runner SR5. \$6,500 OBO. Excellent Condition. 130K miles, White w/ Beige interior, V6, 4WD, Towing Pkg., 408-386-5662

1997 Ford Explorer Green, 4 dr, 4x4, Below KBB, original owner, CD changer & more 925-846-4374

1999 Ford Explorer XLT 4x4 \$2500 140,000 miles; injectors, fuel pump, filter, 209-475-9650

2000 Ford Taurus se \$5,000 obo 82 k,v6,at,ac,pw,pl,ps,cc,abs, flex fuel edition, 209-604-0323

2001 BMW 325ci \$16,700 Silver/Blk int.,2dr coupe, AT w/steptronic, 76K miles, 209-836-2990

2001 Honda Passport \$7,600 OBO 130,000 miles, 925-437-0405

2002 Ford Explorer \$8,500 OBO 4WD, new tires, auto locks/windows/headlights, 209-604-0811

2002 Mercedes C320 \$20,900 Warrant, Fully Loaded with Platinum Warranty, Leather interior, 925-876-2271

2003 Chevrolet 4x4 Z71 Fully Loaded \$17,500 OBO Power everything, 925-634-0778

2003 Honda Accord Coupe V6 EX \$15,200 54,000 mi. V6 Auto, New tire, new brakes, 373-1522

2004 Honda Odyssey Mini-Van \$17,850 Midnight Blue, Excellent condition, 209-239-7345

2005 Toyota Matrix \$14,200 Only 20,600 miles Original Owner, Automatic, Dual Front Air Bags, Single CD, AM/FM Stereo, 209-835-9240

99 Dodge Durango \$7,500 4x4 3rd Row Seat, Rear Air-Dvd Player, 103,000 Miles, 209-914-4928

Mazda Hard Top \$800 Red that fits a 1990 Mazda Miata. Also black vinyl "Boot Cover" for 1990 Mazda Miata. - \$150. 925-606-0524

Silver 2001 Volkswagen New Beetle 1.8 Turbo GLX \$13,999 OBO 50K miles, automatic, 925-373-9319

Automobile Tires/ various sizes,used 925-735-6002

BICYCLES

Girls Bike - Trek Mystic \$35 pink with 16" wheels. Has training wheels too. Make an offer. 925-455-8006

BOATS

14' Klamath fishing boat \$3,200 All welded aluminum construction, 25 HP Mercury motor with electric start, 925-321-4666

Sky Boat Sleek Craft \$12,499 1986 Eliminator series, 22' 5" 22' 5" 925-449-8020

ELECTRONIC EQUIPMENT

Center Speaker \$235 OBO KEF Reference Series center Speaker

Model 100. New in Box. 925-376-1595

Garmin eTrex Legend C GPS \$160 Great for hiking, biking, boating, auto navigation, and geocaching. 209-599-0922

Hitachi Stereo Cabinet \$20 Glass front and top. Cherry wood finish. Good condition. 925-964-0534

i-Pod Mini \$115 silver and in new/gently used condition. 4 GB, song capacity of 1,000. 925-216-3980

Sony Wega, 32" flat screen TV \$200 OBO Model KV-32FV15. 925-516-1243

GIVEAWAY

Free back issues of "Taste of Home" cooking/925-447-2687

Landscape rock free approx 5" diameter, 1/2 cubic yard, haul from church parking lot. 925-449-6951

HOUSEHOLD

2 Beautiful Italian leather love Seats \$1,500 OBO Cocoa color Please call for questions. 925-872-6448

Antique bankers table \$500 Solid Oak with Oak chair. Green inlaid top. Excellent condition. 925-443-8831

Antique dining room table \$1,500 Solid oak. + four oak chairs. Very unique. 925-443-8831

Beautiful solid wood display Shelves Regular shelf & corner shelf Both yours for \$145-price is firm. I can sell them separately. 925-640-5469

Cal King mattress \$200 obo Like new. 3 yrs. old, 2 of which was in storage. 925-443-8354

Estate Sale April 21-22, 9 a.m.-6 p.m., 955 South L St., Livermore. 925-455-6510

Headboard, girl's twin \$150 Cute contemporary headboard & footboard w/butterfly. 925-422-8183

Household \$1,500 Leather sofa and matching big easy chair. 209-786-5967

Oak armoire, TV ready, drawers, hanger pole \$200 obo 925-240-7374

Oak Dining Room Table, Chairs, Buffet, and Hutch \$450 OBO 925-447-7857

Oak entertainment center \$240 Left side glass door w/ 4 shelves. 925-606-0524

Oak twin bed w/ 3 drawers \$75 OBO 925-872-6448

Recliner \$200 Like new, electrical movement, dark green 925-935-5004

Redwood patio furniture w/cushions, chair, te-ta-te, lounge 925-829-3175

Refrigerator \$300 new, hot point, side by side, 25 cf, automatic ice maker 925-447-5948

Rocker/recliner \$40 In great condition, neutral colors. 925-455-8158

Screen doors - \$15 each two new screen doors that were never installed. 925-455-8006

Vacuum cleaner \$30 Eureka, disposable paper bags 925-829-3175

Wood mirror \$40 wood frame. From dresser unit, 925-964-0534

Wooden desks \$10-50 Solid wood desks: 1) 3'x5' sturdy but not pretty \$10. 2) 3'x6' executive desk, much nicer \$50. Near lab. 925-596-0165

LOST AND FOUND

Found- Watch outside East gate. Please call to identify. 3-7349 (work)

Found: Gold-framed glasses in a soft black case, with a 3x5 spiral-bound notebook, in the bike lane in the East Avenue corridor on Friday (4/6) afternoon. 294-3042

MISCELLANEOUS

\$1 Silver certificates Some look like uncirculated and others have a fold, but all are in great shape. 455-8006

Dobsonian Telescope \$175 Orion Skyquest XT8 Telescope. 925-606-5307

Ariens 20" Rear Tine Rotary Tiller \$350 7HP 925-371-8889

Bicycle, lawn mower, and shelf stereo. Air Max 18 speed street bike. 1 yr old. \$100 or best offer. Craftsman push-type lawn mower with mulching capability for sale. \$100 or best offer. Emerson shelf stereo for sale. \$50 or best offer. 209-823-6394

Electronic Infrared Ear Thermometer \$10 925-828-3295

Hoist \$100 very heavy duty engine hydraulic 925-829-3175

Hydraulic engine crane \$250 Very heavy duty w/wheels. 925-829-3175

Ladders \$20 Used 12ft 3-legged wooden picking or pruning ladders in good condition. 209-892-6993

Landscape pebbles make Offer, Originally cost hundreds, 925-449-4466

Lawn mower & edger \$200/ 209-833-8100

Moving boxes for sale \$25 925-964-0534

Murrano blown glass chandelier \$5,000 OBO 209-526-6272

Outdoor benches \$125 each, 2 deep-stone like benches. 925-443-7082

Six beautiful 12-inch-high silk arrangements of green hydrangeas and peach-colored flowers, \$20 negotiate. 925-447-2687

Under desk file drawers \$30 925-640-5469

Wheelbarrow \$40 contractor size 925-735-6002

MOTORCYCLES

1979 Suzuki RM 125 N \$800 OBO V, just had a major restoration, 209-338-8869

1985 Suzuki Lt250 \$2,500 OBO MINT condition. 925-443-6315

2002 Suzuki Bandit 1200S \$3,750, 925-606-6515

2003 Yamaha V-Star Classic 1100 CC \$6,500 OBO Only 1300 Miles, Like brand new!!! 209-239-7576

2005 Kawasaki Meanstreak 1600 \$8,500 1600 CC. 209-345-6160

2005 Yamaha V-Star 1100 Custom \$7,000 OBO, 8900 miles,

209-836-1706

82 Honda CBX \$6,000 OBO, SuperSport, 17672 miles. 209-833-7604

Harley-Davidson \$9,000 FLSTF Fat Boy, 1991, 209-823-8678

2000 Yamaha Roadstar \$6,000 10,000 miles Lots of extras 925-240-5800

2005 Itz 400 suzuki quad, \$4,000. Nerf bars and nets. Very good condition. 925-240-5800

MUSICAL INSTRUMENTS

Guitar \$150 Durango guitar and hard carrying case. 209-606-4287

PETS

Rabbits for adoption \$50. 2, for adoption to good home. 925-447-4370

Reptile cage and stand \$40 reptile cage with four light fixtures. 925-426-8224

Yorkshire Terrier 3-year-old male available to stud out. 209-679-3777

RECREATION EQUIPMENT

Little Tikes playground \$250, Product #4370. Includes 6' and 3' slides. 925-606-0696

Olympic style free weights and bench \$50 925-447-7907

Shoulder holster, left manded \$35.00 OBO Safariland mod. (209) 833-8306

RIDESHARING

Carpool from Ceres or Turlock 209-535-3809.

Carpool from Salida 209-543-0572

El Cerrito - Berkeley vanpool \$155 Our vanpool has openings for full time or casual riders. 3-7995 for more information. 510-524-5769

Manteca vanpool \$95/mo. Has 2 openings starting now. 8-4:30 M-F. 209-239-5178

Modesto vanpool has 2 full openings 209-521-9047

SHARED HOUSING

Housing for rent \$530/mo incl.util. Room furnished w/cable outlet & high speed internet. 925-443-8448

Room for rent \$750 Residential home Located in Pleasanton, 925-443-2827

Room for rent \$650/month in nice neighborhood, May 2007-October 2007, short-term, summer student. 925-454-1881

Room for rent-Tracy \$500/mo. This room is equipped with TV, DVD, Internet access, bed, dresser, computer, desk and chair. \$500 deposit and \$500 month. 925-337-3789

Room to rent \$650/mo Nice neighborhood, large room available, short-term. 925-784-7148

Rooms for rent Manteca \$500 2 Rooms available for Rent \$500 each + shared utilities, 209-823-0926

Rooms to rent \$650 Springtown neighborhood, 2 rooms to rent short-term / summer students, 925-373-0698

TRAILERS

2004 Layton Skyline Travel trailer \$16,900 OBO 925-292-9680

2007 Interstate Trailer \$8,000 OBO 16'x 8' enclosed trailer. 209-

835-7413

Horse trailer, 1999 Logan Competitor 3-horse slant, BP \$7,200 OBO 925-449-6911

Motorcycle trailer \$700 OBO Very nice medium size 3 rail motorcycle trailer. 209-338-8869

1992 Prowler 5th wheel travel trailer \$5900 21.5' Travel Trailer. 925-413-2725

Weekend Warrior Toy Hauler \$27,000 obo FS 3000, 209-834-8689

TRUCKS

1972 Chevy stepside \$6,000 OBO 925-373-3429

2002 Chevrolet Silverado Z71 \$17,850 Only 21,000 miles, extended cab. 925-606-4365

2006 XLT Ranger 4x4 Supercab \$17,000 \$3k under Kelly Blue Bk. exc. cond. 209-535-3809

Ford truck \$7,500 Excellent condition/extras. 925-735-6002

Pick-up \$42,900. 2006 Dodge SLT 2500 Mega Cab-Excellent condition, beautiful truck -- 209-745-0420

Side Bed Caps - Bright Tread - Dee Zee \$65 925-455-8006

VACATION RENTALS

Arnold area vacation rental with large, well equipped rec. room (pool, air hockey, foosball, poker table, ping-pong, 50" plasma TV, 925-245-1114

Cute beach cottage in Santa Cruz. Great 2 bedroom, 2 bathroom vacation home 4 blocks from beach. 925-245-1114

Maui, HI Kahana Reef oceanfront 1BR/1BA condominium. 925-449-0761

Pinecrest cabin \$225/wknd Great view. 3 bdrm/2 bath, fireplace w/ wood, microwave, pool table. 925-449-5513

South Lake Tahoe chalet, Lab Rates 3 Bedroom 2 bath chalet, nicely furnished, 209-599-4644

Tahoe 2-bedroom suite just steps from Tahoe's Heavenly gondolas/ dates available: May 21-24 925-634-1599

Truckee Tahoe-Donner cabin \$125 pee 3bd/2bth 925-858-0419

WANTED

I need someone to fix my elederly Mom's 2-year-old electric typewriter. She is unable to insert the character wheel. 209-640-7495

1995 Ford Windstar Drivers seat Wanted: Drivers seat for a 1995 Ford Windstar. (209)836-9240

Computer notebook main use is for school papers. 925-240-9992

Girl Scout Cookies wanted - Girl Scout Cookies - looking for 6 boxes of Tagalog and 6 of Mint. 925-245-9857

Wanting to lease forage acres for my beef cattle. Will pay current Animal Unit Monthly (AUM). 925-640-2782

Toyota MR2, running or not. 209-531-1527

Nissan Xterra 4WD Looking for an older Nissan Xterra 4WD in good running condition for my daughter in college. 209-239-07576

PEOPLE NEWS

New Website for housing rental information to summer scholars

The University Relations Program and Human Resources Student & Faculty Employment Services have collaborated to provide Lab employees an avenue to advertise their rental opportunities to future LLNL student employees.

Landlords (employees who have rooms, houses, condos, apartments for rent) can:

- Search and view existing rentals
- Add a rental
- Edit your rental information

Go to the Web at <https://scs.llnl.gov/housing/>.

To add a rental unit, click on the add/edit your rental

Summer scholars rental Website:

<https://scs.llnl.gov/housing/>

tab, login with your OUN/PAC, agree to a legal statement and complete the form.

The following controls are in place to protect your safety and privacy when you advertise on the housing site:

There are only two ways for candidates to

access the housing information:

- Via Scholar Candidate System (SCS), which requires selected candidates to login.
- Via a link sent in an e-mail from HR staff requiring an access code to limit access to those that are sent the e-mail.

The housing page will not show up in Internet search engines and the URL will not be advertised on any Websites.

For additional information, contact Mitch Alvarez, 2-9631.

IN MEMORIAM

Patricia Durkin

Patricia Durkin, a Lab retiree, died April 7 in Burnet, Texas. She was 61.

Durkin was born Dec. 1, 1945 in Oakland, Calif. After her retirement from the Lab, Durkin relocated to Murphys, Calif. then to the Texas Hill country. She had lived in Kingsland, Texas for three and a half years.

Durkin was an active and talented sewer in the Quilters

Club. She was a participant of the local "Red Hat Society."

Durkin is survived by her sons, Tim Durkin of Kingsland, Texas and Jeff Durkin of Washington state; brother Lynn Helm of El Sobrante, Calif.; and five grandchildren.

A memorial service was held in Kingsland. Memorial contributions may be made to the American Cancer Society.

Lawrence Crooks

Lawrence Crooks, a 42-year resident of Las Vegas, died April 7 after a long illness. He was 83.

Born Feb. 28, 1924, in Sioux Falls, S.D., he was a World War II U.S. Army veteran when he served as a combat engineer and participated in the Battle of the Bulge.

He graduated from the University of California with a degree in mechanical engineering.

He worked for many years as resident manager for LLNL at the Nevada Test Site, where he designed nuclear devices and oversaw test detonations. He was later assigned to the Department

of Energy Headquarters in Washington, D.C. for International Security Affairs. He returned to Las Vegas in 1987.

Crooks is survived by his wife of 59 years, Jean; son and daughter-in-law, James and Robin Crooks of Oakland, Ore.; daughter and her partner, Dr. Kathryn Crooks and B.J. Willoughby of Las Vegas; three grandchildren; a brother and sister-in-law, Dick and Dorrie Crooks of Carmichael, Calif.; and numerous nieces and nephews.

Donations in Crooks' name can be made to the Alzheimer's Association.

Richard J. Wasley

Richard J. Wasley, who worked at LLNL as an engineer for 35 years, died April 6. He was 75.

Wasley enjoyed a life of adventure, travel, banjo music and family.

He is survived by his wife Liena; son Richard; daughters

Anne and Pam; stepchildren Debby, Edward and Diane; and five grandchildren. He was preceded in death by his first wife Margie who died in 1989.

Contributions may be made in his memory to the Juvenile Diabetes Research Foundation at <https://www.jdrf.org/index.cfm>.

Edward Neuharth

Edward William Neuharth, a 38-year resident of Nevada County, and a former Lab employee, died April 7. He was 72.

Neuharth was born Nov. 14, 1934. His family moved to Eureka, S.D., when he was young but returned to California in 1944. In 1953, he graduated from Nevada Union High School and then attended Sierra College where he received an associate of arts degree. He worked at Tabe's Union Oil Station.

In 1959, he moved to Livermore where he worked for 11 years at the Laboratory. He moved back to Grass Valley where he began a career with the Nevada Irrigation District. He first worked

in the drafting department and later in administration at the Auburn office. He retired in 1995.

Neuharth enjoyed the outdoors and spent his leisure time fishing, hunting, gardening and traveling.

He is survived by his wife, Wanda Neuharth of Grass Valley; daughter and son-in-law, Liz and Philip Vardara of Grass Valley; son and daughter-in-law, Eddie and Brandy Neuharth of Grass Valley; three grandsons; brothers Dave Neuharth of Florida, and Bill Neuharth of Grass Valley; and many nieces and nephews.

Memorial donations may be sent to Hospice of the Foothills, 2399 Nevada City Highway, Grass Valley, CA 95945.

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LAB NEWS

Diplomat pessimistic about Mideast

By Bob Hirschfeld
Newsline staff writer

A five-kilogram terrorist bomb packed with ball-bearings blew up on a crowded bus in Jerusalem on August 19, 2003. The attack killed 23 people, and left 130 wounded.

It also ended three months of diplomacy spearheaded by the United States that had shown early signs of success at bringing the Israeli and Palestinian governments closer together.

The episode was discussed at the Lab's Center for Global Security Research on Tuesday by John Wolf, who had been appointed by President Bush to head the U.S. delegation.

Wolf, a career diplomat, provided a pessimistic outlook for prospects for an eventual peace between Israel and the Palestinians.

According to Wolf, "In retrospect, 2003 may have been an opportunity, but neither (Israeli Prime Minister Ariel) Sharon nor (Palestinian

Authority President Yasser) Arafat was prepared to cede what was necessary. And President Bush started out intent on making a breakthrough, but his interest quickly tailed off after the bus bombing in August."

Wolf believes peace between the two sides is still possible, but it will take time and confidence-building. He warned that everyone, including the Arab world, the United Nations, Russia and the European governments, must assume even-handed positions. And the U.S. — with leadership from the Oval Office — must take "the unique role that we have, and translate it into credible ideas, and put pressure on both sides to move forward."

But for the next few years, Wolf predicted, "The betting person wouldn't bet that anything good would happen, and based on historic data points, would guess that somebody, whether from Hamas or Hezbollah or one of the Fatah terrorist groups could do something that will literally and figuratively blow up the process."



JACQUELINE McBRIDE/NEWSLINE

John Wolf

Earth Expo '07



JACQUELINE McBRIDE/NEWSLINE

Katherine Gabor (right) of the Environmental Protection Department's Pollution Prevention Team gave out recycling tips and giveaways to employees during this week's Earth Expo '07. The event took place Monday through Thursday at both the West and Central cafeterias and featured the theme "Caring for the Environment at Work and at Home." Pollution Prevention Team members talked with employees about recycling both on site and in the community.



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